## **CLAIMS**

1. A method for interactive medical treatment planning involving multiple			
participants using multiple treatment planning stations, comprising the steps of:			
(a) establishing one of said treatment planning stations as a session controller and			
launching treatment planning software thereon;			
(b) establishing a communication connection between said session controller			
treatment planning station and all of said treatment planning stations participating in a			
planning session; and			
(c) displaying, on all participating treatment planning stations, treatment plan			
information being displayed on said session controller treatment planning station.			
2. A method as set forth in claim 1, further comprising the step of:			
(d) designating one of said treatment planning stations as an active controller, said			
active controller controlling manipulation of said treatment planning information.			
3. A method as set forth in claim 2, wherein said active control of said treatment			

planning session is regulated by said session controller treatment planning station.

4

5

6 7

8 9

1

2

1

2

3

4

5

6

1

2

3 4

1 4. A method as set forth in claim 3, wherein step (d) comprises at least the steps 2 of: 3 (e) generation of an active-control request by a treatment planning station;

- (f) processing of said active-control request by said session controller treatment planning station; and
- (g) authorizing or denying said active-control request by said session controller treatment planning station, wherein if said active-control request is granted, said treatment planning station generating said active-control request is given active control of said treatment planning session, and if said active-control request is denied, said treatment planning station generating said active-control request is denied active-control of said treatment planning session.
- 5. A method as set forth in claim 4, wherein at least two of said treatment planning stations are located in geographically diverse locations.
- 6. A method as set forth in claim 5, wherein each of said treatment planning stations includes video conferencing capability, and wherein said method further comprises the step of:
- (h) transmitting video and audio signals using said video conferencing capability of said treatment planning stations so that participants to said treatment planning session can see and hear the other participants in the session while the session is in progress.
- 7. A method as set forth in claim 6, wherein said treatment planning session is for planning radiation therapy and said participants in said treatment planning session include at least a dosimitrist and a radiation oncologist, each located at a geographically diverse location.

1

2

1

2

1

2

3

4

5

6

7

8

9

1

2

3

1	8. A method as set forth in claim 7, wherein said treatment planning stations are
2	coupled to each other via a network connection.

- 9. A method as set forth in claim 8, wherein said network connection comprises the Internet.
  - 10. A method as set forth in claim 8, wherein said network connection comprises the Next Generation Internet (NGI) or other high bandwidth connection.
  - 11. A method as set forth in claim 9, wherein said manipulation of said treatment plan information includes at least one of contouring, rotating, or pointing at locations in images being displayed on said treatment planning stations and inputting treatment area and treatment dosage information into said treatment planning software.
  - 12. A system for interactive medical treatment planning involving multiple participants using multiple treatment planning stations, the system comprising:

means for establishing one of said treatment planning stations as a session controller and launching treatment planning software thereon;

means for establishing a communication connection between said session controller treatment planning station and all of said treatment planning stations participating in a planning session; and

means for displaying, on all participating treatment planning stations, treatment plan information being displayed on said session controller treatment planning station.

13. A system as set forth in claim 12, further comprising means for designating one of said treatment planning stations as an active controller, said active controller controlling manipulation of said treatment planning information.

WO 01/67371 PCT/US01/07125

	2
	3
seā.	4
	5
	6
	7
	8
g Šeže	9
	10
ĬŲ.	
The street of	1

1 2

3

1

2

1

2

3

4

5

1

2

3

4

14. A system as set forth in claim 13, wherein said active control of said treatment planning session is regulated by said session controller treatment planning station.

15. A system as set forth in claim 14, wherein designating means includes: means for generation of an active-control request by a treatment planning station; means for processing said active-control request by said session controller treatment planning station; and

means for authorizing or denying said active-control request by said session controller treatment planning station, wherein if said active-control request is granted, said treatment planning station generating said active-control request is given active control of said treatment planning session, and if said active-control request is denied, said treatment planning station generating said active-control request is denied activecontrol of said treatment planning session.

- 16. A system as set forth in claim 15, wherein at least two of said treatment planning stations are located in geographically diverse locations.
- 17. A system as set forth in claim 16, wherein each of said treatment planning stations includes video conferencing capability, and wherein said method further includes means for transmitting video and audio signals using said video conferencing capability of said treatment planning stations so that participants to said treatment planning session can see and hear the other participants in the session while the session is in progress.
- 18. A system as set forth in claim 17, wherein said treatment planning session is for planning radiation therapy and said participants in said treatment planning session include at least a dosimitrist and a radiation oncologist, each located at a geographically diverse location.

- 1 19. A system as set forth in claim 18, wherein said treatment planning stations are
- 2 coupled to each other via a network connection.
- 20. A system as set forth in claim 8, wherein said network connection comprises
- 2 the Internet.